

Store at
-20C
#84580**MFF (E5W4M) XP[®] Rabbit mAb**

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Applications: W, IP, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 25, 27, 30, 35	Source/Isotype: Rabbit IgG	UniProt ID: #Q9GZY8	Entrez-Gene Id: 56947
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Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

MFF (E5W4M) XP[®] Rabbit mAb recognizes endogenous levels of total MFF protein. Based upon sequence alignment, this antibody is predicted to react with isoforms 1-5 of human MFF protein and isoforms 1-4 of mouse MFF protein.

Species predicted to react based on 100% sequence homology

Bovine, Dog

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro126 of human MFF protein, isoform 1.

Background

Mitochondrial fission factor (MFF) is a tail-anchored protein that resides within the outer mitochondrial membrane and is part of the mitochondrial fission complex. MFF participates in mitochondrial fission by serving as one of multiple receptors for the GTPase dynamin-related protein 1 (Drp1) (1-4). Research studies have also shown that MFF is a peroxisomal membrane protein and participates in peroxisome fission by serving as a receptor for another GTPase, dynamin-like protein 1 (5,6).

Background References

- Liu, R. and Chan, D.C. (2015) *Mol Biol Cell* 26, 4466-77.
- Shen, Q. et al. (2014) *Mol Biol Cell* 25, 145-59.
- Losón, O.C. et al. (2013) *Mol Biol Cell* 24, 659-67.
- Otera, H. et al. (2010) *J Cell Biol* 191, 1141-58.
- Itoyama, A. et al. (2013) *Biol Open* 2, 998-1006.
- Gandre-Babbe, S. and van der Bliek, A.M. (2008) *Mol Biol Cell* 19, 2402-12.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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